#### 10/695,730 EAST SEARCH HISTORY INCLUDING INTERFERENCE

Ref #	Hits	Search Query	DBs	Default Operator	Piurals	Time Stamp
L1	159	544/355	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/26 11:50
L2	0	l1 and hyperbranched	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/26 11:50
13	0	l1 and ab2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/26 11:50
L4	2	I1 and monomer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/26 11:50
L5	1	I1 and (polymerization or polymerisation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/08/26 11:51

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PATOPASPC - New patent database available
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ERGISTRY/ZREGISTRY enhanced with additional patent information and new
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MARPAT displays enhanced with expanded G-group definitions Web Page URLs for STN Seminar Schedule - N. America "Ask CAS" for self-help around the clock PATDPAFULL - New display fields provide for legal status STN AnaVist, now available Derwent World Patents Index(R) web-based training during apparation of U.S. Patent Classifications for U.S. patent records in CA/CAplus GBFULL enhanced with patent drawing images REGISTRY has been enhanced with source information August STN AnaVist workshops to be held in North America data from INPADOC BABS - Current-awareness alerts (SDIS) available General Internet Information Welcome Banner and News Items Theet Dial and Telecommunication Network Access JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005 STN Operating Hours Plus Help Desk Availability STN Patent Forums to be held in July 2005 - Database reloaded and enhanced Welcome to STN International and text labels MEDICONF removed from STN Enter x:x SCISEARCH reloaded PASSWORD: TERMINAL (ENTER 1, 2, 3, OR ?):2 applications Welcome to STN International! EMBASE LOGINID: SSSPTA16232CT 28 FEB 28
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HIGHEST RN 861772-82-9 HIGHEST RN 861772-82-9 24 AUG 2005 24 AUG 2005 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES:

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\* The CA roles and document type information have been removed from the IDE default display format and the ED field has been added, effective March 20, 2005. A new display format, IDERL, is now available and contains the CA role and document type information.

Structure search iteration limits have been increased. See HELP SLIMITS

Experimental and calculated property data are now available. For more information enter HELP RROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END): end

=> Uploading C:\Program Files\Stnexp\Queries\PHENYLOXYPHENYLQUINOXALINE.str

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: 27 28 chain nodes

3-11 8-15 9-16 11-12 11-13 19-28 24-27 ring bonds:

1-6 2-3 3-4, 4-5 5-6 5-7 6-10 7-8 8-9 9-10 15-17 15-21 16-22 16-26 8 18-19 19-20 20-21 22-23 23-24 24-25 25-26 17-18

11-13 19-28 24-27 oxact/norm bonds: 11-12 11-13 19-2 oxact bonds: 3-11 8-15 9-16

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 15-17 15-21 16-22 16-26 17-18 18-19 19-20 20-21 22-23 23-24 24-25 25-26 included ring systems: containing 1: 15: 16: normalized bonds

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS

#### STRUCTURE UPLOADED 3

-> que L1

QUE L1 77

L2 HAS NO ANSWERS L1 HAS NO ANSWERS L1

Structure attributes must be viewed using STN Express query preparation. \_\_QUE\_ABB=ON\_PLU=ON\_L1

=> s 12 SAMPLE SEARCH INITIATED 11:59:13 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 181 TO ITERATE

181 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

1 ANSWERS

ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\* FULL FILE PROJECTIONS:

2813 TO 1 TO PROJECTED ITERATIONS: PROJECTED ANSWERS:

1 SEA SSS SAM L1 13

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3 Z A Z

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN 519011-59-6 REGISTRY Entered STN: 22 May 2007 6-00 and 6-00 and 10-00 and 200, 2,3-bis(4-(4-aminophenoxy)phenyl]-, homopolymer (9CI) (CA INDEX NAME)

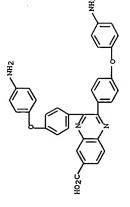
2,3-Bis 4-(4-aminophenoxy)phenyl]quinoxaline-6-carboxylic acid homopolymer (C33 H24 N4 O4)x OTHER NAMES:
CN 2,3-Bis|
MF (C33 H2d
CI PMS
PCT POLYAMIC
SR CA
LC STN File

Polyamide, Polyamide formed, Polyether, Polyquinoxaline

CA STN Files: CA, CAPLUS, USPATFULL

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514197-14-9 C33 H24 N4 O4 CRN CAF



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE) 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

3362 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

FULL SEARCH INITIATED 11:59:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3362 TO ITERATE

FULL SEARCH INIT

17 ANSWERS

17 SEA SSS FUL L1

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TOTAL SESSION 164.24 SINCE FILE ENTRY 164.03 -> file caplus COST IN U.S. DOLLARS FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:59:38 ON 26 AUG 2005
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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## => d 1-14 ibib abs hitstr

Quinoxaline-containing hyperbranched aromatic poly(ether-ketones)
Baek, Jong-Beom; Tan, Loon-Seng
United States Dept. of the Air Force, USA
CODEN: USXXAM COPYRIGHT 2005 ACS on STN 2005:94805 CAPLUS 142:156532 English CAPLUS COUNT: ANSWER 1 OF 14 INVENTOR(S):
PATENT ASSIGNEE(S): LANGUAGE: FAMILY ACC. NUM. CO PATENT INFORMATION: ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: DOCUMENT TYPE: SOURCE:

20031023 20030228

US 2003-695735 US 2003-453334P APPLICATION NO.

20050201

PRIORITY APPLN. INFO.:

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PATENT NO. US 6849707

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The invention relates to a quinoxaline-containing hyperbranched ether-ketone polymer having repeating units of the formula 1. The method for the polymerization of 2,3-bis(4-phenyloxyphenyl)-6-quinoxaline-carboxylic acid comprises the steps of: heating the 2,3-bis(4-phenoxyphenyl)-6-quinoxaline-carboxylic acid in a polymerization medium consisting of polyphosphoric acid with AB

83% P205 content with 25 wt% addnl. P205 relative to the polyphosphoric acid to a temperature of about 130° for about 24 h and recovering the resulting polymer.
433719-35-81, 2,3-Bis(4-phenyloxyphenyl)-6-quinoxalinecarboxylic

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acid homopolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(production of quinoxaline-containing hyperbranched aromatic

poly(ether-ketones) RN 433719-35-8 CAPLUS CN 6-Quinoxalinecarboxv

6-Quinoxalinecarboxylic acid, 2,3-bis(4-phenoxyphenyl)-, homopolymer (9CI)

(CA INDEX NAME)

δ CMF C33 H22 N2 04

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ø REFERENCE COUNT:

US COPYRIGHT 2005 ACS on STN 2004:703124 CAPLUS CAPLUS LS ANSWER 2 OF 14 ACCESSION NUMBER: ' DOCUMENT NUMBER:

Treating conditions associated with an Edg-7 receptor Shankar, Geetha; Solow-Cordero, David; Spencer, Juliet V; Gluchowski, Charles USA U.S. Pat. Appl. Publ., 29 pp. Cobbn: USXXCO Patent Betant English 141:218944

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE:

APPLICATION NO. US 2004-760062 US 2003-440336P 20040826 DATE KIND F PATENT NO.

20040116

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MARPAT 141:218944 US 2004167165
PRIORITY APPLN: INFO.: OTHER SOURCE(S):

The invention provides a method for modulating an Edg-7 receptor mediated biol. activity in a cell. A cell expressing the Edg-7 receptor is contacted with a modulator of the Edg-7 receptor which is capable of modulating an Edg-7 receptor which is capable of modulating an Edg-7 receptor mediated biol. activity. The invention provides a method for modulating an Edg-7 receptor mediated biol. activity in a subject. A therapeutically effective amount of the Edg-7 receptor modulator with formula I (where R1,R2 R3 R4 and R7 = -H,-halo,-CN, -NO2 etc.) independently) or with formula II (where R1, R2, R3, R4 and R7 = Hy,-halo, NO2 -CN, etc.) or a pharmaceutically available solvate or hydrate theref is administered to the subject. ΑB

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES 40622-01-3P H

40622-01-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX methods of treating conditions associated with an Edg-7 receptor) 22-01-3 CAPLUS (Vses)

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L5 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2004:41818 CAPLUS DOCUMENT NUMBER:

2004:41818 CAPLUS
140:119650
Charge transport compositions and electronic devices
made with such compositions
Lecloux, Daniel David; Guidry, Mark A.; Herron,
Norman; Radu, Nora S.; Smith, Eric Maurice; Wang, Ying
E.I. Du Pont De Nemours and Company, USA
CODEN: PIXXD2
Part et the Part of the Company of the Part of the PATENT ASSIGNEE(S): INVENTOR(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ZW, AM, AZ, BY,
DE, DK, EE, ES,
SE, SI, SK, TR,
NE, SN, TD, TG
20030702
20030702
20030702
20030702
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20030709
XM, SE, HU, SK 20031208 20020710 20030328 20030709 BZ, GB, KZ, NI, 20040...
20050406 EP 2003-76340.
DK, ES, FR, GB, GR, IT, LI, LU, NL, FI, RO, MK, CY, AL, TR, BG, CZ, EE 20040422 US 2003-612704
US 2003-34767P
US 2003-458277P V, BB, BG, BR, BY,
EC, EE, ES, FI,
NN, MW, KK, KE,
NS, SE, SK, SL,
SE, TT, OG, ZW,
EG, CH, CY, CZ,
EG, CH, ML, MR,
EG, SO03-612482
US 2003-612244
US 2003-612244
CA 2003-763463
EP 2003-763463 WO 2003-US21618 APPLICATION NO. GE, AU, AZ, B DK, DM, D IN, MS, M MD, MG, M RU, SC, S UZ, VC, V MZ, VC, V MZ, AT, I IE, IT, CM, GA, CM, GA, CM, GA, CM, GA, 20040513 20040115 DK, FI, KIND AA, AB, CZ, ; ; US 2004077860 PRIORITY APPLN. INFO.: 2004068115 2004092687 2004097725 WO 2004006355 WO 2004006355 US 20040661: US 20040681: US 200409261 US 200409777: CA 2492692 EP 1520305 PATENT NO.

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WO 2003-US21618 MARPAT 140:119650

OTHER SOURCE(S): GI

W 20030709

Compns. are described which comprise quinoxaline derivs. described by the general formula I (RI and R2 are the same or different at each occurrence and are selected from H, F, Cl, Br, alkyl, heteroalkyl, alkenyl, alkyl, alkyly, heteroalkyl, alkenyl, alkyly, alkyly, alkynylaryl, alkynylheteroaryl, Chiafb, Ochiafb, cGHerda, and OcGHerd; both R2 together may constitute an arylene or heteroarylene group; a, b, c, and d = 0 or an integer such that a+b = 2n + 1, and c + d = 5; n = an integer; and z = 0-4. Electronic devices (e.g., light-maitting diodes, light-maitting alectrochem; cells, or photodetectors) comprising 2 photoactive layer and a second layer are also described in which 21 layer comprises the quinoxaline AB

647375-59-5P H

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (quinoxaline derivative-containing compns. and electronic devices made using

647375-59-5 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

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**8** 

139:338345 Amine-terminated hyperbranched quinoxaline-amide L5 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2003:862831 CAPLUS DOCUMENT NUMBER: 139:338345 IITE:

polymers
Baek, Jong-beom; Tan, Loon-seng; Ferguson, John B.
The United States of America as Represented by the Sorretary of the Air Force, USA
U.S., 5 pp.
CODEN: USXXAM INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

English DOCUMENT TYPE:

COUNT: FAMILY ACC. NUM. CC PATENT INFORMATION: LANGUAGE:

APPLICATION NO. DATE KIND PATENT NO.

DATE

initiators for room-temperature bismaleimide polymerization, are manufactured 2,3-bis(4-aminophenyl)quinoxaline-6-carboxyllc acid or 2,3-bis(4-aminophenoxy)phenyl)quinoxaline-6-carboxyllc acid. 519011-90-6f, 2,3-Bis(4-(4-aminophenoxy)phenyl)quinoxaline-6-carboxyllc acid homopolymer acid homopolymer (2.5 CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (USES) 20020227 20020227 Amine-terminated hyperbranched quinoxaline-based polyamides, useful as (amine-terminated hyperbranched quinoxaline-based polyamides for initiators for room-temperature polymerization of blsmaleimides) 519011-90-6 GAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis[4-(4-aminophenoxy)phenyll-, homopolymer (9CI) (CA INDEX NAME) US 2002-83969 US 2002-83969 20031104 B1 PRIORITY APPLN. INFO.:
AB Amine-terminated by polymerization of US 6642347 LI

514197-14-9 C33 H24 N4 O4 ક

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THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 7

REFERENCE COUNT:

Quinoxaline-containing hyperbranched poly (benzoxazoles) rights of the government Tan, Loon-Seng; Baek, Jong-Beom United States Dopt. of the Air Force, USA U.S., 5 pp. US COPYRIGHT 2005 ACS on STN 2003:648269 CAPLUS 139:180519 English 1 CAPLUS COUNT: L5 ANSWER 5 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: PATENT ASSIGNEE(S): FAMILY ACC. NUM. CO PATENT INFORMATION: DOCUMENT TYPE: INVENTOR(S): SOURCE: TITLE:

20020710 20020710 APPLICATION NO. US 2002-192044 US 2002-192044 20030819 DATE KIND PRIORITY APPLIN. INFO.: PATENT NO. US 6608171

A hyperbranched polymer having repeating units I (Q = 0, S or NH) shows secalient processability and flaxibility in engineering. The polymer is end-capped with an end-capper such as 2,3-diphenyl-6-carboxyquinoxaline and 4-aulfobenzoic acid. AB

371980-68-61, 2,3-Bis(3-amino-4-hydroxyphenyl)quinoxaline-6-exboxylic acid dihydrochloride homopolymer RL: PRP (Properties); RTT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) H

(manufacture of quinoxaline-containing hyperbranched poly(benzoxazoles)) 371980-68-6 CAPLUS

6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-, dihydrochloride, homopolymer (9Cl) (CA INDEX NAME) ₹ ₹

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371980-67-5 C21 H16 N4 O4 . 2 C1 H CRN OMF

●2 HCl

40622-01-31, 2,3-Bis(4-methoxyphenyl)quinoxaline-6-carboxylic Acid 90833-59-31, 2,3-Bis(4-hydroxyphenyl)quinoxaline-6-carboxylic Acid 371980-67-51, 2,3-Bis(4-hydroxyphenyl)quinoxaline-6-carboxylic acid dihydrochloride 503114-28-11, 2,3-Bis(4-hydroxyl-0ride 503114-28-11, 2,3-Bis(4-hydroxy-3-nitrophenyl)quinoxaline 6-carboxylic Acid RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT II

(Reactant or reagent)

(manufacture of quinoxaline-containing hyperbranched poly(benzoxazoles)) 40622-01-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME) ₹ ₹

(CA INDEX 90833-59-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxyphenyl)- (9CI) NAME)

\(\frac{1}{2}\)

371980-67-5 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-, dihydrochloride (9CI) (CA INDEX NAME) Z Z

●2 HCL

র 503114-28-1 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxy-3-nitrophenyl)- (9CI) INDEX NAME) Z Z

# THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ო

REFERENCE COUNT:

L5 ANSWER 6 OF 14 CAI	L5 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:	2003:591307 CAPLUS
DOCUMENT NUMBER:	139:143997
TITLE:	Methods using Edg receptor modulators for the
	treatment of Edg receptor-associated conditions
INVENTOR(S):	Shankar, Geetha; Solow-Cordero, David; Spencer, Juliet
	V.; Gluchowski, Charles
PATENT ASSIGNEE(S):	Ceretek LLC, USA
SOURCE:	PCT Int. Appl., 293 pp.
	CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	ິຕ
PATENT INFORMATION:	

		20030121			3					ES,			0121	0121	, PT,		0121	20020118	20020118	20020118	20020118	20030121
DATE		2002			LC,				AM, AZ,	DK, EE	SK, TR	TD, TG	2003	20030121	SE, MC	HU, SK	2003	2002	2002	2002	2002	2002
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APPLICATION NO.		WO 2003-051881	BA, BB, BG, BR, BY, E	EE,	KG,	M	SL,		, ZT	Ŗ,	NL,	MĽ,	203-2	703-7	II,	TR,	303-5	302-3	302-3	302-3	302-3	1-500
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PATENT NO.		2003062392	AE,	8	8	ĽS,	PL,	Ą,	GH,	KĠ,	FI,	BJ,	740	522	AT,	IE, SI,	JP 2005519915	ż				
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PAT	¦	2 3											ฮ์	EP			J. J.	PRIORITY APPLN.				

OTHER SOURCE(S):

AB The invention provides a method of modulating an Edg-2, Edg-3, Ed-4 or

Edg7 receptor-mediated biol. activity in a cell. A cell expressing the

Edg-2, Edg-3, Edg-4 or Edg 7 receptor is contacted with a modulator of the

Edg-2, Edg-3, Edg-4 or Edg 7 receptor sufficient to modulate receptor

mediated biol. activity. In another aspect, the present invention

provides a method for modulating an Edg-2, Edg-3, Ed-4 or Edg-7 receptor mediated biol. in a subject. A therapeutically effective amount of a modulator of the Edg-2, Edg-3, Ed-4 or Edg7 receptor is administered to the subject. Preparation of compds., e.g.

H

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES pyrazol-3-yl)butyramide, is described.

(Edg receptor modulators for treatment of Edg receptor-associated (Uses)

conditions)

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6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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L5 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2003:382305 CAPLUS DOCUMENT NUMBER: 139:85736

Room-temperature free-radical-induced polymerization of 1,1 \* (methylenedi-1,4-phenylene) bismaleimide via a novel diphenylquinoxaline-containing hyperbranched aromatic polyamide Baek, Jong-Beom; Ferguson, John B.; Tan, Loon-Seng Research Institute, University of Dayton, Dayton, OH AUTHOR(S): CORPORATE SOURCE:

Macromolecules (2003), 36(12), 4385-4396 CODEN: MAMOBX; ISSN: 0024-9297 45469, USA SOURCE:

American Chemical Society Journal DOCUMENT TYPE: PUBLISHER:

English LANGUAGE: AB Two n

Two new diphenylquinoxaline-containing AB2 monomers, i.e., 2,3-bis(4-aminophenyl)quinoxaline-6-carboxylic acid (1), and 2,3-bis[4-(4-aminophenoxy)phenyl]quinoxaline-6-carboxylic acid (11) were prepared and polymerized via the Yamazaki reaction to form hyperbranched aromatic

monomers and their resp. hyperbranched polymers are structurally similar except for the presence of a p-phenyloxy spacer between the quinoxaline and p-aminophenyl segments in II and its polymer, the phys. and chemical properties of both monomers and hyperbranched polymers are distinctly different. It is believed that the tautomerism in I and its polymer is likely the basis for these differences. Since the II polymer was only marginally soluble in polar appretic solvents in which the I polymer readily dissolved, a known, soluble hyperbranched polyamide was prepared from 3,5-bis(4-aminophenyloxy) benzoic acid (III) for comparison purposes in a subsequent blends study. The curing behaviors and thermal properties of the hyperbranched I and III polyamides blended in 0.75-3.75 weight % with a common bismaleimide, i.e., 1,1'-(methylenedi-4,1-phenylene)bismaleimide polyamides with -NH2 as the reactive chain-end groups. Although these AB2

Fourier-transform IR (FTIR) spectroscopy. Whereas the DSC results indicated that the III polymer reacted normally with BMI in a Michael-addition fashion, followed by homopolymn. of the excess BMI, the I polymer appeared to be able to initiate free radical polymerization of BMI a room temperature after co-dissoln. with BMI in N-methyl-2-pyrrolidinone. The DSC results of the BMI, I polymer blends indicated that, atl.5 waight of I polymer, no exotherm attributable to the thermal curing of BMI was detected. ESR expts. confirmed that the paramagnetic species present in the I polymer were more reactive toward BMI in solution at room temperature (BMI), resin were studied with differential scanning calorimetry (DSC) and

the radical detected in the III polymer. This unique property of the I polymer to initiate room-temperature radical polymerization of BMI makes it Important than

as a prototype for the development of low-temperature, thermally curable thermosetting resin systems for high-temperature applications. 519011-90-6P RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

H

(hyperbranched; room-temperature free-radical-induced polymerization of 1,1'-(methylenedi-1,4-phenylene)bismaleimide via diphenylquinoxalinecontaining hyperbranched aromatic polyamide)

6-Quinoxalinecarboxylic acid, 2,3-bis{4-(4-aminophenoxy)phenyl]-, homopolymer (9CI) (CA INDEX NAME) 519011-90-6 CAPLUS

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CMF C33 H24 N4 04

40622-01-31, 2,3-Bis(4-methoxyphenyl)quinoxaline-6-carboxylic acid 90833-59-31 514197-16-1P ᇤ

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

for (intermediate; in preparation of monomers for synthesis of diplonyduinoxaline-containing hyperbranched arcmatic polyamide free-redical-induced polymerization of 1,1'-(methylenediali,4-phenylene)bismaleimide)

40622-01-3 CAPIUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME) **Z** Z

90833-59-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) **Z** Z

514197-16-1 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis[4-(4-nitrophenoxy)phenyl]- (9CI) (CA INDEX NAME) ₹ ₹

514197-14-9P
RL: RTT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(monomer; for synthesis of diphenylquinoxaline-containing hyperbranched
arcmatic polyamide for free-radical-induced polymerization of
1,1"-(methylenedi-1,4-phenylene)bismaleimide)
514197-14-9 CAPLUS II

6-Quinoxalinecarboxylic acid, 2,3-bis(4-(4-aminophenoxy)phenyl)- (9CI) (CA INDEX NAME)

₹ 5

THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 61 REFERENCE COUNT:

Hyperbranched aromatic polyamides containing ether and quinoxaline units and their blends with BMI Back, Jong-Beom; Ferguson, John B.; Mather, Patrick COPYRIGHT 2005 ACS on STN :381427 CAPLUS 2003:381427 138:354654 CAPLUS L5 ANSWER 8 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: AUTHOR(S): TITLE:

T.; Tan, Loon-Seng Univ. of Dayton Res. Inst., Dayton, OH, 45469, USA Polymeric Materials Science and Engineering (2001), 4, 724-725 CODEN: PMSEDG, ISSN: 0743-0515 CORPORATE SOURCE: SOURCE:

American Chemical Society English PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB Three new

Three new ether- and ether-quinoxaline-containing monomers, 4-eminophenoxy-isophthalic acid, 2,3-bis(4-aminophenyl)quinoxaline-6-carboxylic acid (1), 2,3-bis(4-aminophenyl)quinoxaline-6-carboxylic acid (2) and 2,3-bis(4-(4-aminophenoxy)phenoxyline-ocarboxylic acid (3) were prepared They are A2B and ABZ monomers where A=COZH and B=NHZ which were polymerized via Yamazaki reaction to form the resp. hyperbranched aromatic polyamides with -NHZ and -CO2H as reactive chain-end groups. Preliminary results on the curing and thermal properties of two hyperbranched polyamides blended in small amts. With a common bismaleimide (1,1'-(Methylenedi-4,1-phenylenes)bismaleimide, BMI) resin are described. The hyperbranched polymer derived from 2 appeared to be able to initiate free radical polymerization of BMI.

free radica 519011-90-6

H

PRP (Properties) (hyperbranched aromatic polyamides containing ether and quinoxaline units

their blends with BMI) \$19011-90-6 CAPLUS

and

6-Quinoxalinecarboxylic acid, 2,3-bis[4-(4-aminophenoxy)phenyl]-, homopolymer (9CI) (CA INDEX NAME) ₹ ₹

ξ

514197-14-9 C33 H24 N4 04

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 15 REFERENCE COUNT:

Quinoxaline-containing AB2 monomers for hyperbranched aromatic polyamides
Baek, Jong-Beem; Tan, Loon-aSng
United States Dept. of the Air Force, USA
CODEN: USXXAM COPYRIGHT 2005 ACS on STN 2003:312683 CAPLUS 138:321752 English CAPLUS FAMILY ACC. NUM. COUNT: PATENT INFORMATION: L5 ANSWER 9 OF 14 ACCESSION NUMBER: PATENT ASSIGNEE(S): SOURCE: DOCUMENT NUMBER: INVENTOR(S): TITLE:

DOCUMENT TYPE: LANGUAGE:

APPLICATION NO. US 2002-83963 US 2002-83963 20030422 DATE KIND PRIORITY APPLIN. INFO.: US 6552195 PATENT NO.

20020227 DATE

102(e) B/c sime CEXEMPT UNDER CLUSEST PREDR ART

Polymerization of AB2 monomers of I type (Q = NH2, q-aminophenoxy) results in TN/EMTRS hyperbranched aromatic polyamides. Two such monomers were prepared including 2,3-bis (q-aminopheny) quinoxaline-6-carboxylic acid and 2,3-bis(4-aminophenyloxyphenyl)quinoxaline-6-carboxylic acid. ΑB

hydroxyphenyl)quinoxaline-6-carboxylic Acid514197-16-1P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT 40622-01-3F 90833-59-3F, 2,3-Bis(4-

ī

(manufacture of quinoxaline-containing AB2 monomers for hyperbranched

aromatic

polyamides) 40622-01-3 CAPLUS Z

6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME) 3

90833-59-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) **Z** Z

514197-16-1 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis[4-(4-nitrophenoxy)phenyl]- (9Cl) (CA INDEX NAME) ₹ &

IT .514197-14-9P RL: IMF (Industrial manufacture); PREP (Preparation) (monomers; manufacture of quinoxaline-containing AB2 monomers for hyperbranched

₹ 5

aromatic polyamides) 514197-14-9 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis[4-(4-aminophenoxy)phenyl]- (9CI) (CA INDEX NAME)

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT N REFERENCE COUNT:

138:272113
Quinoxaline derivatives as AB2 monomers
Quinoxaline derivatives as AB2 monomers
Tan, Loon-Sang; Baek, Jong-Beom
The United States of America as Represented by the
Secretary of the Air Force, USA
U.S., 5 pp.
CODEN: USXXAM
Patent
English L5 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2003:255128 CAPLUS FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT ASSIGNEE(S): DOCUMENT NUMBER: DOCUMENT TYPE: LANGUAGE: INVENTOR(S): SOURCE:

20020710 DATE APPLICATION NO. US 2002-192040 US 2002-192040 20030401 DATE KIND US 6541633
PRIORITY APPLN. INFO.: PATENT NO.

ΑB

AB2 monomers I (Z = OH, SH, or NHZHCI) are useful for the proparation of hyperbranched polymers.

Myperbranched polymers.

Mod22-01-31, 2,3-Bis(4-methoxyphenyl) quinoxaline-6-carboxylic acid 90833-59-31, 2,3-Bis(4-hydroxyphenyl) quinoxaline-6-carboxylic acid 503114-28-11, 2,3-Bis(4-hydroxyphenyl) quinoxaline-6-II

carboxylic acid RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer precursor; quinoxaline derivs. as AB2 monomers for hyperbranched polymers)
40622-01-3 CAPLUS
6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX

₹ 5

NAME)

90833-59-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) **3** 3

503114-28-1 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxy-3-nitrophenyl)- (9CI) (CA INDEX NAME) ₹ ₹

371980-67-51, 2,3-Bis(3-amino-4-hydroxyphenyl)quinoxaline-6-carboxylic acid dihydrochloride RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT H

(Reactant or reagent)
(monomer; quinoxaline derivs. as AB2 monomers for hyperbranched

polymers) ... 17980-67-5 CAPLUS ... 2,3-bis(3-emino-4-hydroxyphenyl)-, dihydrochloride (9CI) (CA INDEX NAME) ₹ 3

●2 HC1

II

371980-68-6DL, end-capped derivs.

RL: IMF (Industrial manufacture); PREP (Preparation)
(quinoxaline derivs. as AB2 monomers for hyperbranched polymers)
371980-66-6 CAPLUS
6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-,
dihydrochloride, homopolymer (9CI) (CA INDEX NAME)

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Z Z

371980-67-5 C21 H16 N4 O4 . 2 C1 H CRN CMF

띥 5 371980-68-61, 2,3-Bis(3-amino-4-hydroxyphenyl)quinoxaline-6-carboxylic acid dihydrochloride homopolymer RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT II

(Reactant or reagent)
(quinoxaline derivs. as AB2 monomers for hyperbranched polymors)
37190-68-6 CAPLUS
6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-,
dihydrochloride, homopolymer (9CI) (CA INDEX NAME)

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CRN 371980-67-5

C21 H16 N4 O4 . 2 C1 H ğ

●2 HCI

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ღ REFERENCE COUNT:

Synthesis of hyperbranched poly(ether-ketone) containing quinoxaline moiety from an AB2 monomer in polyphosphoric acid/P208 Back, Jong-Beom; Tan, Loon-Seng LUS COPYRIGHT 2005 ACS on STN 2002:230215 CAPLUS CAPLUS 14 LS ANSWER 11 OF ACCESSION NUMBER: DOCUMENT NUMBER:

AUTHOR(S): CORPORATE SOURCE: SOURCE:

Back, Jorg-Beom; Tan, Loon-Sang Research Inst., Univ. Dayton, Dayton, OH, 45469, USA Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2202), 43(1), 514-515 CODBN: ACPPRY: ISSN: 0032-3934 American Chemical Society, Division of Polymer PUBLI SHER:

Chemistry

DOCUMENT TYPE:

A new ABZ monomer, 2,3-bis.(4-phenyloxyphenyl)-6-quinoxaline-carboxylic acid was synthesized in two different routes. It was subjected to acylium-mediated polymerization under four different conditions: (1) in polyphosphoric acid (PPA) at 130°, (iii) in 1:4 (weight/weight) P205 and PPA at 130°, (iii) in 1:4 (weight/weight) P205 and PPA at 130°, (iii) in 1:4 (weight/weight) P205 and methanesulfonic acid (MSA) at 110°, (iv) in 1:10 (weight/weight) P205 and methanesulfonic acid (MSA) at 110°, MSA): (1) 0.07; (ii) 0.56; (iii) gel; (iv) 0.50 dL/g. This indicated the effectiveness of conditions (ii) which were found to be optimal for the synthesis of other related poly(cher-ketones) in our previous studies. Tig's of the polymers were detected (DSC) at (i) 149°; (ii) 113°; (iii) not detectable; (iv) 91°. Thermogravimetric of these polymers showed that they were heat-resistant with temps. ich a 5% weight loss was observed in the range of  $505^{\circ}-525^{\circ}$ Journal; (computer optical disk) English anal. LANGUAGE: AB A nev

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT at which a 5% weight loss was observed in air and 515°-536° in helium, resp. (Reactant or reagent) E

6-Quinoxalinecarboxylic acid, 2,3-bis(4-phenoxyphenyl)- (9CI) (CA INDEX NAME) (monomer; synthesis of hyperbranched poly(ether-ketone) containing quinoxaline molety from AB2 monomer in polyphosphoric acid/P205) 416879-02-2 CAPLUS ₹ ₹

433719-35-8P H

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis of hyperbranched poly(ether-ketone) containing quinoxaline moiety from AB2 monomer in polyphosphoric acid/P205) 433719-35-8 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-phenoxyphenyl)-, homopolymer (9CI) (CA INDEX NAME)

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416879-02-2 C33 H22 N2 04 CRN

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT œ

REFERENCE COUNT:

Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2001), 42(2), 502-503 CODEN: ACPRAY: 0.032-3934 American Chemical Society, Division of Polymer Synthesis and polymerization of a bis (0-aminophenol)carboxylic acid AB2 monomer Baek, Jong-Beom; Simko, Sharon R.; Tan, Loon-Seng University of Dayton Research Institute, Dayton, OH, 45466-1168, USA 2001:662247 CAPLUS Chemistry CAPLUS L5 ANSWER 12 OF 14 ACCESSION NUMBER: AUTHOR(S): CORPORATE SOURCE: DOCUMENT NUMBER: PUBLISHER: SOURCE: TITLE:

polymer, with an intrinsic viscosity of 1.04 dL/g. It was end-capped with 2-thiophenecarboxylic acid, 3.5-dihydroxybenzoic acid, 3-sulfobenzoic acid and 2,3-diphenyl-6-carboxyquinoxaline (prepared acid, 4-aulfobenzoic acid and benzil). These hyperbranched polymer displayed an unusual, nonlinear solution viscosity behavior at the concus. below apprx.0.25 g/dL. At these dilute concus., both reduced and inherent The AB, monomer, 2,3-bis(3-amino-4-hydroxyphenyl)-6-carboxyquinoxaline dihydrochloride, was synthesized in four steps and polymerized in polyphosphoric acid to afford the hyperbranched quinoxaline-benzoxazole LANGUAGE: AB The A

Journal; (computer optical disk)

English

DOCUMENT TYPE:

viscosities decreased precipitously ("inverse polyelectrolyte behavior").

371890-67-51, 2,3-Bis(3-amino-4-hydroxyphenyl)-6carboxyquinoxaline dihydrochloride
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or resepont)
[preparation and polymerization of bis(aminohydroxyphenyl)carboxyquinoxaline
dihydrochloride ABZ monomer to hyperbranched quinoxaline-benzoxazole polymers)
371980-67-5 CAPLUS
6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-,
dihydrochloride (9CI) (CA INDEX NAME) 11 Z Z

●2 HC1

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and properties of hyperbranched) 371980-68-6 CAPLUS 6-001100xalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-, dihydrochloride, homopolymer (9CI) (CA INDEX NAME) **3** 3

δ

371980-67-5 C21 H16 N4 O4 . 2 Cl S S

371980-68-6D1, end-functionalized derivs. 371980-68-6E, 2, 3-B1s(3-amino-4-hydroxyphenyl)-6-carboxyquinoxaline dihydrochloride Ξ

●2 HCl

6-Quinoxalinecarboxylic acid, 2,3-bis(3-amino-4-hydroxyphenyl)-, dihydrochloride, homopolymer (9CI) (CA INDEX NAME) 371980-68-6 CAPLUS Z Z

£

371980-67-5 C21 H16 N4 O4 . 2 C1 H CRN

2 HCl

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

101:38427 Substituted 5- and 6-quinoxalinecarboxylic acids and their tuberculostatic activity Roubinek, Frantisek; Bydzovsky, Viktor; Budesinsky, Res. Inst. Pharm. Biochem., Prague, 130 00/3, Czech. Collection of Czechoslovak Chemical Communications (1984), 49(1), 285-94 CODEN: CCCAK; ISSN: 0366-547X CAPLUS COPYRIGHT 2005 ACS on STN 1984:438427 CAPLUS L5 ANSWER 13 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: SOURCE: AUTHOR(S): TITLE:

DOCUMENT TYPE:

LANGUAGE: OTHER SOURCE(S): GI

English CASREACT 101:38427

Seventy-four title compds. I and II (R, RI = alkyl, (un)substituted Ph, 2-furyl; RRI = (CH2)n (n = 4, 5); R2 = H, HO) were prepared by condensation of RCOOR1 with its corresponding diaminobenzoic acid. Some compds.

40622-01-31 90833-65-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study), unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BDL (Blological study); PREP (Preparation); USES (Uses)
(preparation and tuberculostatic activity of)
40622-01-3 CAPLUS
6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME) AB. Ë

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90833-65-1 CAPLUS 6-Quinoxalinacarboxylic acid, 7-hydroxy-2,3-bis(4-mathoxyphenyl)- (9CI) (CA INDEX NAME) Z &

### 90833-59-31 90833-60-61 90833-66-2P 90833-67-3P H

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 90833-59-3 CAPLUS

Z

6-Quinoxalinecarboxylic acid, 2,3-bis(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) ਨੁ

90833-60-6 CAPLUS 6-Quinoxalinecarboxylic acid, 7-hydroxy-2,3-bis(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) Z Z

90833-66-2 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(3,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME) ₹ 5

90833-67-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(3,4-dimethoxyphenyl)-7-hydroxy-(9CI) (CA INDEX NAME) ₹ ₹

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:6523 CAPLUS
DOCUMENT NUMBER: 798:6523 CAPLUS
INVENTOR(S): 1494:6520 CAPLUS
BAUGY, Signid, Sikora, Helga; Frass, Werner Survextor(S): 6ar. of fen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: 6ar. of fen., 6ar. of fe

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE	1 1 1 1 1 1 1	19701230			19711220			19711224	19711224	19711227	19711227	19711228	19711228	19711228	19711228	19711229	19711229	19711229	19711230
APPLICATION NO.		DE 1970-2064380			NL 1971-17474						CH 1971-18968								FR 1971-47492
DATE		19720720	19800430	19810122	19720704	19820201	19820701	19730628	19750114	19750410	19750930	19720628	19720927	19730510	19800705	19740816	19750122	19750203	19720818
KIND	!	4	B2	ខ	4	Ø	ບ	A1	A1	æ	4	A1	4	۷	B4	A1	4	Ø	A5
PATENT NO.	* * * * * * * * * * * * * * * * * * * *	DE 2064380	DE 2064380	DE 2064380	NL 7117474	NL 169372	NL 169372	•	CA 960902		٠.		.ZA 7108622	IT 945669	JP 55025410	ES 398454	GB 1381119	SE 373440	FR 2121126

A light-sensitive copying composition is prepared that contains a polymer and a light-sensitive N-compound contains leaded to contains a polymer and a light-sensitive N-compound The N-compound contains 16-membered that contains a polymer and a light-sensitive N-compound The N-compound contains 16-membered that sensitive N-compound The N-compound The SI benzene nucleus as a substituent or fused to the heterocyclic nucleus as a substituent or fused to the heterocyclic light-sensitive. The high-mel. N-compound may contain a multitude of light-sensitive residues. The copying material is costed on a support and has on its free side a coating film that is slightly permeable to 0. The polymer may contain carbonic acid, phosphonic acid, sulfonic acid, or N-arylsulfonylurethane groups. The concentration of the light-sensitive PRIORITY APPLN. INFO.: AB A light-sensitive

is 0.5-30 weight parts per 100 weight parts of polymer. 40622-01-3 compound

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RL: USES (Uses) (light-sensitive compns. containing, for photoduplication)

40622-01-3 CAPLUS 6-Quinoxalinecarboxylic acid, 2,3-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME) ₹ 5

TOTAL SESSION 234.30 TOTAL SESSION -10.22 SINCE FILE ENTRY -10.22 70.06 SINCE FILE => logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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COST IN U.S. DOLLARS DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 12:00:36 ON 26 AUG 2005